



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Albert R. Deisseroth and Lixin Zhang

Title: ADENOVIRAL VECTOR VACCINE

Appl. No.: 10/534,605

Filing Date: 05/11/2005

Examiner:

Art Unit:

CERTIFICATE OF MAILING	
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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

Respectfully submitted,

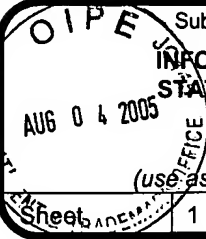
Date July 19, 2005

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By Barry Wilson

Barry S. Wilson
Attorney for Applicant
Registration No. 39,431

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 Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
Application Number		10/534,605	
Filing Date		May 11, 2005	
First Named Inventor		Albert B. Deisseroth	
Group Art Unit			
Examiner Name			
Attorney Docket Number		036222-0212	
Sheet 1	of 9		

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	2003/0176377		Xiang, et al.	09-18-2003	
	A2	4,161,519		Talwar	07-17-1979	
	A3	4,608,251		Mia	08-26-1986	
	A4	5,658,785		Johnson, Phillip	08/19/1997	
	A5	5,849,522		Fleckenstein, et al.	12/15/1998	
	A6	5,849,876		Linsley, et al.	12/15/1998	
	A7	5,874,085		Mond, et al.	02/23/1999	
	A8	5,928,913		Efstathiou, et al.	07/27/1999	
	A9	5,962,406		Armitage, et al.	10/05/1999	
	A10	6,017,527		Maraskovsky, et al.	01/25/2000	
	A11	6,040,174		Imler, et al.	03/21/2000	
	A12	6,087,329		Armitage, et al.	07/11/2000	
	A13	6,110,744		Fang, et al.	08/29/2000	
	A14	6,133,029		Gruber, et al.	10/17/2000	
	A15	6,147,055		Hobart, et al.	11/14/2000	
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	A18	6,287,557		Boursnell, at al.	09/11/2001	
	A19	6,290,972		Armitage, et al.	09/18/2001	
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	A22	6,482,407		Soo Hoo, William	11/19/2002	
	A23	6,497,876		Maraskovsky, et al.	12/24/2002	
	A24	6,500,641		Chen, et al.	12/31/2002	
	A25	6,566,128		Graham, et al.	05/20/2003	
	A26	6,794,188		Barsov	09-21-2004	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A27		WO 2004/044176		Deisseroth et al.	05-27-2004		
	A28		WO 96/11279		The Government of the United States of America	04-18-1996		
	A29		WO 98/17799		The Trustees of the University of Pennsylvania	04-30-1998		

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				Group Art Unit		
Examiner Name						
Attorney Docket Number	036222-0212					
Sheet	2	of	9			

NON PATENT LITERATURE DOCUMENTS				
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	A30	ALLISON and Byars, "Immunological Adjuvants and their mode of action." (in <u>Vaccines: New Approaches to Immunological Problems</u> , R. Ellis ed., Chapter 19), pp. 431-449.		
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	A35	Bell et al., "Dendritic cells." (in <u>Advances in Immunology</u> , edited by Frank J. Dixon, Academic Press, Volume 72), 255-324, 1999.		
	A36	Broder et al., Recombinant adenovirus-transduced dendritic cell immunization in a murine model of central nervous system tumor <i>Neurosurg Focus</i> 9:1-8, 2000.		
	A37	BYARS, et al., "Adjuvant formulation for use in vaccines to elicit both cell-mediated and humoral immunity," <i>Vaccine</i> 5:223-228 (1987)		
	A38	CHEN, et al., Linkage of CD40L to a self-tumor antigen enhances the antitumor immune responses of dendritic cell-based treatment. <i>Cancer Immunology Immunother.</i> 51(6) :341-348, 2002		
	A39	CHOUDHURY, et al., Dendritic cells derived in vitro from acute myelogenous leukemia cells stimulate antitumor, antileukemic T-cell responses. <i>Blood</i> , 93(3) : 780-786, 1999.		
	A40	Crook et al., Continued expression of HPV-16 E7 protein is required for maintenance of the transformed phenotype of cells co-transformed by HPV-16 plus EJ-ras. <i>EMBO J.</i> 8: 513-519, 1989.		
	A41	DAKAPPAGARI et al., "Chimeric multi-human epidermal growth factor receptor-2 B cell epitope peptide vaccine mediates superior antitumor responses," <i>J Immuno.</i> 170(8):4242-4253 (2003)		

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	A42	Dhodapkar, <i>et al.</i> Rapid generation of broad T-cell immunity in humans after a single injection of mature dendritic cells. <i>J Clin Invest.</i> 104: 173-180, 1999.	
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	A44	ENGELMANN, et al., Identification and topology of variant sequences within individual repeat domains of the human epithelial tumor mucin MUC1. <i>J. Biol. Chem.</i> 276:27764-27769, 2001.	
	A45	FILIPE, MI, "Mucins and gastrointestinal malignancy. A new approach to the interpretation of biopsies," <i>Acta Med Port</i> 1:351-365 (1979)	
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	A50	GENDLER S.J. et al, "Molecular cloning and expression of human tumor-associated polymorphic epithelial mucin," <i>J. Biol. Chem.</i> 265:15286-15293 (1990)	
	A51	GONG, et al., "Selection and characterization of MUC1-specific CD8+ cells from MUC1 transgenic mice immunized with dendritic-carcinoma fusion cells." <i>Immunology</i> , 101:316-324 (2000)	
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	A53	Gunzer et al., Dendritic cells and tumor immunity. <i>Semin Immunol</i> 13:291-302, 2001.	
	A54	GUY, et al. "Expression of the neu protooncogene in the mammary epithelium of transgenic mice induces metastatic disease," <i>Proc. Natl. Acad. Sci. USA</i> 89:10578-10582 (1992)	

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	A55	HOLLINGSWORTH, et al., "Expression of MUC1, MUC2, MUC3, and MUC4 mucin mRNA in human pancreatic and intestinal tumor cell lines," <i>Int J Cancer</i> 57:198-203 (1994)	
	A56	Hsu et al. Vaccination of patients with B-cell lymphoma using autologous antigen-pulsed dendritic cells. <i>Nat Med.</i> 2: 52-58, 1996.	
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	A59	KANEDA, "New Vector Innovation for Drug Delivery: Development of Fusogenic Non- Viral Particles," <i>Curr Drug Targets</i> 4(8):599-602 (2003)	
	A60	KIM, et al., "Aberrant expression of MUC5AC and MUC6 gastric mucins and sialyl Tn antigen in intraepithelial neoplasms of the pancreas," <i>Gastroenterology</i> 123:1052-1060 (2002)	
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	A63	Lamikanra et al., Regression of established human papillomavirus type 16 (HPV-16) immortalized tumors <i>in vivo</i> by vaccinia viruses expressing different forms of HPV-16 E7 correlates with enhanced CD8(+) T-cell responses that home to the tumor site. <i>J Virol</i> , 75: 9654-9664, 2001.	
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	A65	Liu et al., Codon Modified Human Papillomavirus Type 16 E7 DNA Vaccine Enhances Cytotoxic T-Lymphocyte Induction and Anti-tumor Activity. <i>Virology</i> 15: 301-343, 2002.	

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	A66	Luft et al., IFN-alpha enhances CD40 ligand-mediated activation of immature monocyte-derived dendritic cells. <i>Int Immunol</i> 14:367-380, 2002	
	A67	Markowicz and Engleman, Granulocyte-macrophage colony-stimulating factor promotes differentiation and survival of human peripheral blood dendritic cells <i>in vitro</i> . <i>J Clin Invest.</i> 85: 955-961, 1990.	
	A68	MOREIN, et al., "Iscom, a novel structure for antigenic presentation of membrane proteins from enveloped viruses," <i>Nature</i> 308:457 (1984)	
	A69	MULLER, et al., "Single-step induction of mammary adenocarcinoma in transgenic mice bearing the activated c-neu oncogene," <i>Cell</i> 54(1):105-115 (1988)	
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	A80	Ribas et al., CD40 cross-linking bypasses the absolute requirement for CD4 T cells during immunization with melanoma antigen gene-modified dendritic cells. <i>Cancer Res.</i> 61:8787-8793, 2001.	

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	A81	Rininsland et al., Granzyme B ELISPOT assay for ex vivo measurements of T cell immunity. J Immunol Methods 240:143-155, 2000.	
	A82	ROWSE, et al., "Tolerance and immunity to MUC1 in a human MUC1 transgenic murine model," <i>Cancer Res.</i> 58:315 (1998)	
	A83	Rudolf et al., Human dendritic cells are activated by chimeric human papillomavirus type-16 virus-like particles and induce epitope-specific human T cell responses <i>in vitro</i> . J Immunol. 166: 5917-5924, 2001	
	A84	Shortman K, and Caux C. Dendritic cell development: multiple pathways to nature's adjuvants Stem Cells 15:409-419, 1997	
	A85	Skov et al., IL-2 and IL-15 regulate CD154 expression on activated CD4 T cells J Immunol. 164:3500-3505, 2000.	
	A86	Steinbrink et al., CD4(+) and CD8(+) anergic T cells induced by interleukin-10-treated human dendritic cells display antigen-specific suppressor activity. Blood 99: 2468-2476, 2002.	
	A87	TANG et al., "Multistep process through which adenoviral vector vaccine overcomes anergy to tumor-associated antigens." Blood, 104:2704-2713, 2004.	
	A88	Timmerman and Levy, Dendritic cell vaccines for cancer immunotherapy. Annual Rev Med. 50: 507-529, 1999.	

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				Application Number	10/534,605
				Filing Date	May 11, 2005
				First Named Inventor	Albert B. Deisseroth
				Group Art Unit	
Examiner Name					
Attorney Docket Number	036222-0212				
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	A89	THOMAS, et al., "Non-viral gene therapy: polycation-mediated DNA delivery," <i>Appl Microbiol Biotechnol</i> 62(1):27-34 (2003)	
	A90	WANG, et al., "Essential roles of tumor-derived helper T cell epitopes for an effective peptide-based tumor vaccine," <i>Cancer Immun.</i> 3:16 (2003)	
	A91	XIANG, et al., "A dual-function DNA vaccine encoding carcinoembryonic antigen and CD40 ligand trimer induces T cell-mediated protective immunity against colon cancer in carcinoembryonic antigen-transgenic mice," <i>The Journal of Immunology</i> , 167:4560-4565 (2001)	
	A92	YAMAMOTO M., et al., "Interaction of the DF3/MUC1 Breast Carcinoma-associated Antigen and -Catenin in Cell Adhesion," <i>J. Biol. Chem.</i> 272:12492-12494 (1997)	
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	A94	YU, et al., "Overexpression of MUC5 genes is associated with early post-operativemetastasis in non-small-cell lung cancer," <i>Int. J. Cancer</i> 69:457-465 (1996)	
	A95	ZHANG, et al., "An adenoviral vector cancer vaccine that delivers a tumor-associated antigen/CD40-ligand fusion protein to dendritic cells," <i>Proc. Natl. Acad. Sci (USA)</i> 100(25):15101 (2003)	
	A96	ZHENG et al., "Induction of antitumor immunity via intratomoral tetra-costimulator protein transfer," <i>Cancer Research</i> 61:8127-8134 (2001)	

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	A97	Zitvogel L, <i>et al.</i> Therapy of murine tumors with tumor peptide-pulsed dendritic cells: dependence on T cells, B7 co-stimulation, and T helper cell 1-associated cytokines. <i>J Exp Med.</i> 183: 87-97, 1996.	
	A98	ZRIHAN-LICHT S., et al., "Tyrosine phosphorylation of the MUC1 breast cancer membrane proteins. Cytokine receptor-like molecules," <i>FEBS Lett.</i> 356:130-136 (1994)	
	A99	Zwaveling et al., Established human papillomavirus type 16-expressing tumors are effectively eradicated following vaccination with long peptides. <i>J Immunol.</i> 169:350-358, 2002.	

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